

ABSTRACT OF THE DISCLOSURE

Antineoplastic dendritic polymer conjugates which are useful drug delivery systems for carrying antineoplastic agents to malignant tumors are prepared by obtaining a dendritic polymer having functional groups which are accessible to an antineoplastic agent capable of interacting with the functional groups, and contacting the dendritic polymer with the antineoplastic agent. The preferred platin-based analogues of the antineoplastic agents conjugated to the dendritic polymer may be administered intravenously, orally, parentally, subcutaneously, intramuscularly, intraarterially or topically to an animal having a malignant tumor in an amount which is effective to inhibit growth of the malignant tumor. The antineoplastic dendritic polymer conjugates exhibit high drug efficiency, high drug carrying capacity, good water solubility, good stability on storage, reduced toxicity, and improved anti-tumor activity *in vivo*.

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